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PROGRESS REPORT 273-14

PART I

THE MARQUARDT CORPORATION
LETTER PROGRESS REPORT
CONTRACT AF 33(657)-7770
1 JANUARY THROUGH 26 JANUARY 1963

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THE MARQUARDT CORPORATION
LETTER PROGRESS REPORT
CONTRACT AF 33(657)-7770
1 JANUARY THROUGH 26 JANUARY 1963

I INTRODUCTION

~~The following is the first CY 1963 progress report to be furnished under Contract AF 33(657)-7770. This report presents a description of work performed during the subject period in accordance with paragraph 2.0 Part A of Marquardt Report 4045B covering engineering support for the RJ43 production engines.~~

~~Activity under this contract in CY 1963 consists of support of the RJ43-MA-11 engine long-term storage evaluation program, and is a continuation of that conducted and reported during CY 1962.~~

II SUMMARY

The long-term storage program is progressing as scheduled and results of the Phase I calibration tests and hardware inspection will become available during the ensuing reporting periods.

III DISCUSSION

Phase I of the long-term storage program neared completion during the reporting period with the conclusion of the 24-month environmental storage period for RJ43-MA-11 engine Serial MA-E10002 and fuel control unit Serial 007. These test items, installed in their respective shipping containers, have been stored in an outdoor environment during the past 24-month period. During this period the shipping containers were exposed to temperatures ranging from -12°F to +112°F and to a wide variety of weather conditions. The engine and fuel control unit shipping containers provided satisfactory protection for the test items as evidenced by the fact that neither container required a change of desiccant during the entire storage program. It was necessary to repressurize the engine container periodically.

On January 15, 1963, the containers were opened in the presence of the local Air Force Quality Control representative and a superficial inspection of the test items was conducted. All test items appeared to be in excellent condition. Preparations are currently being made to conduct the calibration and functional tests on the engine and fuel control unit, following which a detailed teardown inspection of the test items will be performed.

Phase II of the storage program which includes the missile-ready storage of RJ43-MA-11 engine Serial MA-E10011 is progressing according to plan with approximately 72 percent of the environmental storage period now complete. During this reporting period the temperature within the enclosed storage area ranged between 37°F and 55°F and relative humidity ranged between 41 and 61 percent. The engine structure still appears to be in satisfactory condition.